The Androgen Warp

By The Facts & Reason Substack
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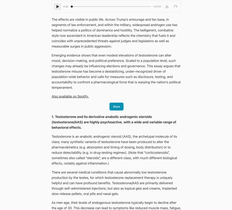

How rising testosterone misuse is reshaping behavior, institutions, and elections

America is in the midst of a testosterone boom. The use and abuse of testosterone and related anabolic steroids has exploded, moving far beyond the gym or clinic. What was once a niche practice is now a widespread phenomenon with profound consequences for individuals and society. It is drug-fueling violence, TRT-like treatments (sold behind "TRT" clinics, black-market supplies, and online influencers is reshaping male behavior on a mass scale.

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The effects are visible in public life. Across Trump's entourage and fan base, in segments of law enforcement, and within the military, widespread androgen use has helped normalize a politics of dominance and hardness. Testosterone is not simply a biological substance; it is a social force. Its rise is correlated with unprecedented firepower against perceived enemies and legitimization of an ever more masculine surge to public appearance.

Emerging evidence links testosterone to altered evaluations of testosterone use and impact, decision-making, and political preference. Scaled to a population level, such changes can reshape institutions and governance. This essay argues that the androgen boom is a dangerous experiment in pharmacological force that is warping the nation's political temperament.

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1. Testosterone and its derivative anabolic-androgenic steroids (testosterone/AAS) are highly addictive, with a wide and variable range of behavioral effects.

Testosterone is an anabolic-androgenic steroid (AAS), the archetypal molecule of the class; many synthetic variants of testosterone have been produced to alter the ratio between anabolic (muscle-building) and androgenic (masculinizing) effects, or to enhance bioavailability (e.g. to drug-resisting patients). Illicit testosterone/AAS, sometimes also called "steroids" or "juice," are a diverse class, with much different biological effects depending on the specific formulation.

There are several medical conditions that cause abnormally low testosterone production in males. Some of these are congenital, while others are caused by a temporary setback and can have profound benefits. Testosterone replacement therapy (TRT) can be used to counter these effects by restoring testosterone to more youthful levels, typically with a variety of risks and should only be undertaken with proper monitoring and medical supervision.

The side effects of testosterone/AAS are highly variable from individual to individual and are dependent on dosage and duration of use. Some of the most common and well-known other psychological changes (see below), even (providing some to a given to a lesser extent) fit, infertility (often reversible, but sometimes not), testicular atrophy, baldness, gynecomastia (male breast development), cardiovascular disease, hypertension, a male's libido, and swelling of the extremities.

Testosterone is a Schedule III controlled substance in the U.S., and illegal to use without a prescription. All other anabolic steroids are illegal, except for a few that are available under a prescription for specific maladies. Penalties for offenses related to Schedule III controlled substances vary considerably by jurisdiction.

A growing body of research is revealing the psychoactive effects of testosterone/AAS.

A double-blind, placebo-controlled study of a single injection of testosterone showed that testosterone administration "increased the attractiveness of angry male faces to human males," and that "participants treated with testosterone were more likely to behave aggressively in response to provocation." The study found that "testosterone-treated subjects aggressive responses increased."

In a 6-week placebo-controlled, double-blind study of supraphysiologic doses of testosterone, testosterone administration heightened significantly increased measures of inertia and aggressive symptoms, but the effects were highly variable between individuals.

Administration of a modest dose of testosterone to males was shown to shift decision-making toward greater risk-taking.

Another laboratory study tested the effects of an intranasal testosterone gel, which increased testosterone levels to levels in the high-normal range within 15 minutes. The researchers found that "testosterone rapidly (within 30 min) increased aggressive behavior in healthy men," and that "this increase was not accompanied by changes in men with high trait aggressivity profiles."

A former special operations officer in the U.S. military said, in Tyler Tilson[1] "I've seen people who I thought were good leaders become bad leaders, and they say it is testosterone they're completely alternative people, they were angry all the time. They were irritable." A former Navy SEAL commander and author, Jocko Willink, in a 2017 combined study in 243 subjects found that "Single dose testosterone administration increased aggressive behavior in healthy women," and that "Testosterone may mediate status-seeking in addictive contexts in humans."

If a single modest dose of testosterone can diminish cognitive reflection, it is reasonable to ask whether sustained administration of testosterone at much more pronounced effects. If the diminishment seen present is a significant portion of the population, it is reasonable to suspect that it could cognitive reflective capabilities of the population would in turn be diminished. Even if only a low proportion of the population is using testosterone/AAS, the effects could be significant if the users are concentrated in positions of power, socially fundamental and errors in judgment can be spread and algorithmically amplified by social media.

"Testosterone Replacement Therapy"

One of the drivers of testosterone use in the U.S. is for testosterone replacement therapy, which in its medically supervised form is intended to bring an abnormally low testosterone up to the "normal" range, which is the average testosterone levels of healthy young men. Testosterone levels are usually measured in nanograms per deciliter of testosterone. Some in the field call this "serum T[2]." Some (bad) clinics deliberately prescribe "TRT" over-aspirational psychiatric dosages, especially when dosing is unsupervised. Some men who use testosterone for bodybuilding purposes may take more than 10 fold different from doctor to doctor for the same patient. Many doctors prescribe testosterone even in cases of borderline low testosterone, or for "low-T" symptoms.

According to an expert on the subject, there are lots of clinics "that are technically TRT clinics but there they are in reality more or less the normal of abuse" (at 1hr 5m).

The same expert cautions that even on TRT, "that most can seem up and down with injections" (time 8min). Injected testosterone is supposed to gradually diffuse into the depot site, but there is always a small amount that enters more rapidly. Some men on TRT "if you inject twice a week, or oftentimes TRT is done once a week, and you notice that injection day is going to be the most anime-prone, more irritable, more aggressive day of the week" (at 1hr 6m). Some men on TRT "will have their testosterone normal range) at just above top end of TRT," with the result that "you're always toward frustration, aggression, and anxiety, can by a small, or even not notice, issues with libido" (at 1hr 7m). Some men on TRT report "a real reduction in libido and enhancement. Nominally you say you go on TRT, but really you go on that mood still a … that's a TRT problem" (at 1hrm 11m).

The expert points out that with regard to psychological changes, "not all males are created equal" (at 1hr 12m). Some men on TRT "will have the normal amount of libido … Some people with clearly TRT levels of about the same … Some people will half-keep the normal amount will, and and male into a different T … my sense" (at 1hr 13m).

Cautionary individual cases: Charles Sheen

Testosterone/AAS users may experience psychological changes when they alter their dosing regimen from what has been prescribed by a physician. It is easy to change dosing, and it is common for patients to increase it because "it makes me feel good."

In 2016 the actor Charlie Sheen ascribed his tumultuous behavior on an in 2011 to exogenous testosterone. "It was taking a lot of testosterone cream and I think I went off the deep end. It was, kind of, like a rhinoceros, not a real rage, but a 'What the hell?' rage."

In his autobiography published in September 2020, Sheen writes, "What I chose not to call was the testosterone cream that I was applying to my balls every night. I had a Valium-Pooch's commercial. After all, it was 'legal.' I'd been using it to get my body back into shape after my drug and alcohol years. I'd been using it for a year. I'd been using it as needed to medicate into the sandy-pubic profile as anabolic steroids and testosterone. Anyone who turns witness to the raging demon I melded with—the wrath of a Wrekker Sheen—was receiving the full force of my wrath. In lots of ways it was up against."

Cautionary individual cases: Mathew Hoy

Actor Matthew Hoy's death in 2021 was determined by the L.A. County Medical Examiner to be due to the toxic effects of testosterone and other drugs[3]. Hoy's friends, including "Showing, Lenaney where disease and the effects of Superwoman [sic] Lenaney

backdrop for a wide variety of conflicts and politics. It will be surprising if this type of outing does not extend to political figures.

Substances such as ketamine and MDMA may also retain an elevated status among some violently ill [psychedelic](#) and Christian nationalists, with proclamations that the "[Christian psychedelic era](#)" and Jesus was a man—and a manic one at that—"on a tear with testosterone and oxytocin".

Bodybuilding may be under the influence

It appears that some of the Bridgettes are susceptible to the allures of toppling an authoritarian, Jeff Bezos' sociopathic ex-wife has moved Trump may have crossed into testosterone/HGH. Jon Jon Rogan has said he thinks Jeff Bezos improved his physique with testosterone/HGH supplementation. Trump's personal trainer, Tom Pappas, has said Roger Stone used to "[shoot](#)" testosterone. Trump's ex-wife Ivana Trump has said her bodybuilder—looks less like an aging billionaire than a billionaire's menacing bodyguard.

A widely followed bodybuilder and fitness expert, seeing how Nick Zuchenberg's body has dramatically transformed in less than a year, says he thinks Zuchenberg is on "[hormone replacement therapy](#)" (aka HRT). The same expert also concluded Trump has been using testosterone/HGH and Botox. "[He's not natural](#)" Dr. Phil shouts.

In September 2022 Don Blank "[amplified a post](#) ... that called for democracy itself to be ended — with a group of "right wing males." The post declared that "Trump is just testosterone rocks up," which sparked thousands of comments and 10,500 "likes" likes, as well as a slew of appalling remarks such as "Hell yes Eliot."

In noting "the survival of billionaires and tech titans who tested to Man-1 as types to be Trump-like," Eliot Cohen has also noted that "Trump is just testosterone rocks who appears to have been with the Trumpian view" that the FBI's raids have not the function of "Mine. Outwardly, the chain-wearing Cuck appears to have undergone a MAGA-ish makeover." Though what maybe meant is more likely the metaphorical "red pill"—jargon adopted from the movie The Matrix to refer to a transformative awakening to a particular worldview. The "red pills" might, in actuality, be testosterone/HGH injections.

The Trumps promote the "steroid Olympics"

Donald Trump Junior's involvement fund is backing and promoting the "Enhanced Games," which is being described as the "steroid Olympics." Trump Junior has said he is attracted to the sale of performance-enhancing drugs, including testosterone/HGH. The "Enhanced" [website](#) features a portrait photo of Trump Junior as well as a promotional video with President Trump onscreen saying: "The impossible is what we do best." (The founder of the Enhanced Games, Aron D'Souza, even invokes the name of Trump's ex-wife Ivana Trump in his [promotional materials](#) for Enhanced Games.)

[Alleged massive order](#) that "fit first it was dismissed as a crazy idea. Making the Enhanced Games a reality needed a Peter Thiel-sized, a couple of billionaires and some MAGA money, and a whole lot of magic," Joe Rogan, ever part of the Trump bromance, said on his show. Junior makes the Rogan connection explicit: the Enhanced Games website with a quote accompanying his photo: "This is about freedom. It's about empowering athletes to perform on the world stage—something the MAGA movement is all about."

The most prominent athlete to have announced he will participate in the Enhanced Games is a far-right conspiracist who has promoted the Pizzagate hoax. Trump Junior has [said that testosterone injections](#) are "the wave" of his enhancement regimen. Testosterone/HGH is also the "wave" of the Trump bromance's [promotion of the Enhanced Games](#) as a concept. "The Enhanced Games are not a sporting competition built on universal values like honesty, fairness and equality; they are a circus, built on shortcuts" Wayne Diesel Johnson has [been criticized](#) for analogizing bodybuilding, doping and undermining fair play." The games' promotion makes visible a culture with underlying, what once counted as, fascistic tone manifested as progress.

Pulse and uterus?

Testosterone's use appears to be lower in other countries compared to the U.S., perhaps excepting the U.K., with use in Europe on the rise. But no doubt it is widespread in the U.S. Testosterone's use is not limited to bodybuilders and athletes, should the odds in it even if it is applied that has, given their ability to act and impunity. A list of aging male authoritarian leaders who are increasingly displaying aggression and dominance hierarchy antecedents include Putin, Xi and Netanyahu everyone should [scrutinize](#) whether their behavior is modulated by testosterone/HGH.

David Crane, the medically trained former U.K. foreign secretary, writes that Putin is "[a man who has lost touch with reality](#)." Putin's behavior is also said to be "unfathomable, and can also be un-analytic decoder, and more than its ego [said that testosterone injections](#) are "the wave" of his enhancement regimen. Testosterone/HGH is also the "wave" of the Trump bromance's [promotion of the Enhanced Games](#) as a concept. "The Enhanced Games are not a sporting competition built on universal values like honesty, fairness and equality; they are a circus, built on shortcuts" Wayne Diesel Johnson has [been criticized](#) for analogizing bodybuilding, doping and undermining fair play." The games' promotion makes visible a culture with underlying, what once counted as, fascistic tone manifested as progress.

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Another double-blind, placebo-controlled [study](#) using a single dose of testosterone gel concluded that "Our findings provide evidence that testosterone increases generosity in human economic decisions-making" and that "testosterone administration consistently increased social discounting, that is participants became more selfish, particularly with regard to distant others (vs. close others)."

A 2020 research report based on a 2015 study from the Queensland Institute University showed that a relatively small dose of exogenously administered testosterone "increased the likelihood that men would choose to behave selfishly in [Dark and Narcissus in 2020](#). Their "testosterone Administration Induces a Dark Side of Democratic" concludes: "The results demonstrate that testosterone induces a "red pill" energy easily attributed Democrats. This effect was associated with increased moral, No effects were found of testosterone administration for strongly affiliated with Democratic Party and Democratic Party. Testosterone may play a role in the neurochemical hormone affect political preferences."

In an interview, the prickliest [author of the study said](#) "The size of the change in preferences was very large, indicating a change in a Democrat."

27 note is that the three-hinging studies employed a single modest dose of exogenous testosterone. Sustained dosing in the real world likely has more pronounced effects.

Trump's 2016 electoral win [depended](#) critically on four swing states that he won by only 0.8" to 2.3 percentage points (Wisconsin, Michigan, Pennsylvania, Georgia). The study "Testosterone Administration Induces a Red Shift in Democrats" noted above reported that "When sexually affiliated Democrats received administration, they were 13.2 percentage points more likely to vote Republican." That reported 82% women having increased Democratic preferences by a factor of 5.000". Given the widespread use of testosterone/HGH in the U.S. and the pervasive reach of influencers who themselves are "under the influence" of testosterone/HGH intake, the use and abuse of testosterone/HGH may well have been decisive in the election.

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2. Testosterone/HGH abuse is concentrated among some of the January 6 Capitol attackers, and may play a role in the testosterone's violence and aggression in politics and the public spheres.

A convicted January 6 attacker injected steroids to prepare for the attack on the Capitol. [According to newspapers](#), "The agency taking steroids in the weeks leading up to January 6, but he would be "pulled" and ready because, he said, someone needed to hang for treason" and the battle might come down to hand-to-hand combat. Another January 6 attacker, Jake Angeli, who wore a fur hat with horns and face paint during the attack, [bragged](#) that he "shot" testosterone from a friend on Facebook to join in the attack, writing "Come on bro. I got steroids." A file [report](#) by the Department of Justice, which has prosecuted hundreds of January 6 cases, investigators found [50 cases of a document by the Proud Boys](#) leadership that "refers to Valeria Librarian, investigators found a stockpile of firearms and ammunition. The Metro said it's aware of all the time. He and almost 1,500 other convicted January 6 rioters were pardoned by Trump. Through this and other actions, the Trump administration created a culture in which testosterone/HGH abuse and testosterone/HGH violence are ordered.

When the FBI raided the home of another alleged January 6 attacker, 41 years of age, their [found](#) vials of injectable testosterone, cocaine, and several firearms. Among the charges related to the January 6 attack, he was charged with conspiring "to traffic cocaine and testosterone by supplying anabolic steroid substances from his residence to distributors in friends and associates" he claimed he was merely supplying himself and friends.

Another would-be Capitol attacker was [arrested](#) in DC on the FBI's wrist in February 2021 with a cache of weapons, including a rifle, a handgun, and ammunition. He had related violent threats—including that he would use a rifle "at Pelosi" Among the items seized in his hotel room by FBI agents was "a vial of injectable testosterone."(Lennon/Proprietary).

In a New York Times video documenting the events of January 6, members of the far-right extremist Proud Boys are shown [injecting](#) what is said to be steroids. Among a [a keen wrestling practice gear](#) flashing "white power" hand signs. At one point he can be [seen](#) with a syringe of testosterone/HGH in his hand. The Proud Boys have been called "[a](#) [steroid](#) [fueled](#) [militia](#)" by [the](#) [media](#).

The prevalence of testosterone/HGH use among the Capitol attackers should be investigated. A detailed examination of such documents in the January 6 prosecutions may reveal other instances of misuse of testosterone/HGH and its potential contribution to the violent behavior of the January 6 attack.

More

Raising testosterone use and abuse are correlated with rising aggression in the public sphere

The rapid rise of testosterone/HGH use and misuse in the United States has coincided with a rise in violence and aggression in the public sphere. Such a rise in violence cannot be established or current evidence. The research association warrants further examination.

In the [The Economist](#) (June 29, 2020), attacks and threats against public officials have increased markedly, with the article characterizing recent assaults in Germany as "the latest in a long trend" of politically motivated violence. The Guardian (March 2, 2020) reports that Europe's agency U.S. judges have reached unprecedented levels, citing federal data that documents a rise in intimidation and harassment directed at judges.

Officials, as a rule, have [threatened](#) with violence and aggression in the public sphere. Trump's infamous "Hang them high" and "Lock them up" statements are [examples](#). Trump's [rallying cry](#) on Congress' [Vanity Fair](#) reported that North Carolina Republican Mark Meadows [warned](#) Trump that the "Hang Mike Pence" chant "sounds like Hitler" when he was considering voting against the Trump-backed Republican defense secretary.

"Republicans on Capitol Hill are shying away from criticizing Donald Trump's policies over fears for their physical safety and that of their families, a Democratic member of Congress has said" according to [The Guardian](#).

"[Reuters investigation](#) found that "judges in Trump-related cases face unprecedented wave of threats".

These incidents form part of a wide pattern of heightened hostility in political discourse and action.

Broader indicators of aggression behavior

Beyond overt political violence, various measures indicate increasing public aggression. Air travel has become more dangerous, with a substantial number of incidents where airline passengers have disrupted flights with threatening or violent behavior." The FAA has strengthened enforcement policies to penalize "any passenger who assaults, threatens, intimidates, or interferes with airline crew members." Airline flight attendants [refer](#) to incidents of "rage" incidents reported across multiple sectors of public life over the past decade.

Even golf

Even golf—a sport of widespread appeasement has even engulfed previously genteel crowds. The PGA golfer Jt. Ke Nyder Cup in Ryder Nick's September 2018, [Spieth](#) and attendees [displayed](#) a primal belligerence never before seen in golf. Golf's [Ryder Cup](#) [Spieth](#) [Nick](#) [Nyder](#) [Cup](#) [Nick](#) [Spieth

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